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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/031,744	01/25/2002	Kiyoshi Miyashita	111776	8620

7590 10/06/2005

Oliff & Berridge
PO Box 19928
Alexandria, VA 22320

EXAMINER

PESIN, BORIS M

ART UNIT	PAPER NUMBER
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2174

DATE MAILED: 10/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/031,744	Applicant(s) MIYASHITA ET AL.	
	Examiner Boris Pesin	Art Unit 2174	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 June 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-29 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

This communication is responsive to Amendment A, filed 06/24/2005.

Claims 1-29 are pending in this application. Claims 1, 23, 26, and 28 are independent claims. In the Amendment A, Claims 1-29 were amended. This action is made Non-Final.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Objections

Claims 13 and 19 are objected to because of the following informalities:

On line 3 of claim 13 there is a "date/date/time". The Examiner believes the Applicant meant to write "date/time".

All other instances of this error must also be corrected.

Furthermore, the Examiner is not sure if the Applicant meant for claim 19 to depend from claim 15, as it stands now, or claim 18.

Claims 27 and 29 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

In regards to claim 27, Claim 26, Line 6 states, "transmitting to the requesting client and the projector". If the applicant specifies the client to be a projector, as per claim 27, then the claim reads "transmitting to the requesting projector and the projector".

Claim 29 has a similar problem as claim 27; therefore it is objected to under similar rationale.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 21 and 26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 21 recites the limitation "the enhanced image" in Line 3. There is insufficient antecedent basis for this limitation in the claim.

Claim 26 recites, "projecting the generated image data in the projector". It is not clear to the Examiner if the applicant means the image is being projected in the projector, or the projector is projecting the generated image data stored in the projector.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

xx Claims 1-12 and 21-29 are rejected under 35 U.S.C. 102(b) as being anticipated by Hylin et al. (US 6005534).

In regards to claim 1, Hylin teaches a projector capable of connection to a network, the projector comprising; a network connection portion for sending and receiving data over a network (Figure 1, Element 14); an image data generating portion for generating image data for display, based on data received via the network connection portion (Figure 1, Element 38); and a projection display portion for projecting the generated image data (Figure 1, Element 22).

In regards to claim 2, Hylin teaches a projector according to claim 1 wherein the data received by the image data generating portion being screen data, and the image data generating portion executing a client application and generating the image data on the basis of the screen data (i.e. "A number of working machines or working stations 32 are connected to the central computer 28 for controlling, communicating and processing of exposure or picture material, generating exposure lists through the exposure handler when required, and so on. Alternatively, the information mediators

24 may have their own versions of the exposure program used, thereby enabling the mediators to deliver finished picture sequences/films transparently. These picture sequences/films need not then be prepared in the control centre 12, but can be filed dynamically in the exposure list by the exposure handler." Column 11, Line 11).

In regards to claim 3, Hylin teaches a projector according to claim 1 the image data generating portion executing a viewer application and generating the image data on the basis of the received data (i.e. "A number of working machines or working stations 32 are connected to the central computer 28 for controlling, communicating and processing of exposure or picture material, generating exposure lists through the exposure handler when required, and so on. Alternatively, the information mediators 24 may have their own versions of the exposure program used, thereby enabling the mediators to deliver finished picture sequences/films transparently. These picture sequences/films need not then be prepared in the control centre 12, but can be filed dynamically in the exposure list by the exposure handler." Column 11, Line 11).

In regards to claim 4, Hylin teaches a projector according to claim 1, the image data generating portion identifying the data format of the received data, executing a suitable viewer application for the identified data format, and generating said image data (i.e. "A number of working machines or working stations 32 are connected to the central computer 28 for controlling, communicating and processing of exposure or picture material, generating exposure lists through the exposure handler when required, and so on. Alternatively, the information mediators 24 may have their own versions of the exposure program used, thereby enabling the mediators to deliver finished picture

sequences/films transparently. These picture sequences/films need not then be prepared in the control centre 12, but can be filed dynamically in the exposure list by the exposure handler." Column 11, Line 11).

In regards to claim 5, Hylin teaches a projector according to claim 1, further comprising: a playback audio data generating portion for generating audio data for playback on the basis of data received via the network connection portion; and an audio data playback portion for outputting the generated playback audio data (i.e. "In addition to exposing pictures in different standard formats, for instance in PICT (Picture Format), EPS (Encapsulated Post Script), TIFF (Tagged Image File Format), etc., the digital information system is also able to expose Quick Time.RTM. film, video film and transmit sound. " Column 9, Line 66).

In regards to claim 6, Hylin teaches a projector according to claim 5, that data being multimedia data including motion video data and audio data associated with motion video data, the image data generating portion generating image data for display on the basis of motion video data received via the network connection portion, and the audio data playback portion generating playback audio data associated with the generated image data on the basis of audio data associated with motion video data received via the network connection portion (i.e. "In addition to exposing pictures in different standard formats, for instance in PICT (Picture Format), EPS (Encapsulated Post Script), TIFF (Tagged Image File Format), etc., the digital information system is also able to expose Quick Time.RTM. film, video film and transmit sound. " Column 9, Line 66).

In regards to claim 7, Hylin teaches a projector according to claim 1 further comprising: an external input signal receiving portion for receiving an external input signal from an external input portion (Figure 1, Element 14).

In regards to claim 8, Hylin teaches the projector according to claim 7, further comprising: an identifier for uniquely identifying itself from other projectors, the external input portion including an identifier selecting portion for selecting the identifier, and enabling unique input to one desired projector among a plurality of projectors (i.e. "Each means for exposing, or showing, information sent from the projectors 22 can be individually controlled. The control centre 12 sends picture packets/information to the station computer 34 together with an exposure list. The exposure list includes a series of instructions as to what shall be shown, where it shall be shown, when it shall be shown and for how long, etc. The station computer 34 then provides each projector computer 38 with the material to be exposed. Thus, one and the same information material can be shown on all screens, or certain screens can be chosen for specific information display." Column 9, Line 47).

In regards to claim 9, Hylin teaches the projector according to claim 7, the external input portion transmitting an input signal to the external input signal receiving portion by a wireless device (Figure 1, Element 14).

In regards to claim 10, Hylin teaches the projector according to claim 7, further comprising: a data decision portion for deciding, during projection display and/or after projection display of the image data and via the external input portion, the next set of data to be received via the network (i.e. "The projector computers 38 deliver pictures to

the projectors 22 and monitor the function of the projectors. In this case, the exposure information for the pictures can be fed from the station computer 34 in packets. When a packet has been exposed, it is erased to make room for the next packet." Column 11, Line 35).

In regards to claim 11, Hylin teaches the projector according to claim 1, the projection display portion including an electro optical data output portion, a light source for illuminating the electro optical data output portion, and a lens for enlarging images projected by the light source (i.e. Figure 1, Element 22).

In regards to claim 12, Hylin teaches the projector according to claim 1, further comprising: and image data conversion portion for converting a projected image to image data; and a storage device for storing the converted image data (Figure 1, Element 36).

In regards to claim 21, Hylin teaches the projector according to claim 12, the storage device being connected to the network, and the enhanced image data being stored in a storage device connected to the network (Figure 1, Element 14).

In regards to claim 22, Hylin teaches the projector functioning as a terminal device for an application service provider (Figure 1, Element 24).

In regards to claim 23, Hylin teaches a display system wherein results of operations performed by a server being displayed via a plurality of projectors connected over a network, the server comprising: a projector (Figure 1, Element 22); a display screen data generating device, the display screen generating device being provided for each projector, to execute operations in response to a request from the

projector to generate display screen data (Figure 1, Element 38); and a display screen data transmitting device to transmit the generated display screen data to the projector requesting the operations (Figure 1, Element 38), the projector including: a transmitting/receiving device to transmit a request for the operations to the server via the network and to receive the display screen data transmitted from the server (Figure 1, Element 34); image data generating device to generate image data for display on the basis of the received display screen data (Figure 1, Element 38); and projection display device to project the generated image data (Figure 1, Element 22).

In regards to claim 24, Hylin teaches the display according to claim 23, the display screen data generated by the display screen data generating device of the server having a unique format and consisting of differential data for previous display screen data and current display screen data, and the image data generating device of the projector using a client application to generate the image data on the basis of the display screen data (i.e. "The projector computers 38 deliver pictures to the projectors 22 and monitor the function of the projectors. In this case, the exposure information for the pictures can be fed from the station computer 34 in packets. When a packet has been exposed, it is erased to make room for the next packet." Column 11, Line 35).

In regards to claim 25, Hylin teaches a display system according to claim 23, the projector being a projector for an applicant serve provider (Figure 1, Element 24).

In regards to claim 26, Hylin teaches a method for displaying images via a projector connected to a network, the method comprising; executing an application in response to a request from a client in a server connected to a network (i.e. "A number of

working machines or working stations 32 are connected to the central computer 28 for controlling, communicating and processing of exposure or picture material, generating exposure lists through the exposure handler when required, and so on. Alternatively, the information mediators 24 may have their own versions of the exposure program used, thereby enabling the mediators to deliver finished picture sequences/films transparently. These picture sequences/films need not then be prepared in the control centre 12, but can be filed dynamically in the exposure list by the exposure handler.” Column 11, Line 11); and transmitting to the requesting client and said projector via the network user interface data resulting from execution of the application in a server connected to the network (Figure 1, Element 14); receiving the transmitted user interface data in the projector (Figure 1, Element 38); generating image data for display on the basis of the received user interface data in the projector(Figure 1, Element 38); and projecting the generated image data in the projector(Figure 1, Element 22).

In regards to claim 27, Hylin teaches a method according to claim 26 the client being a projector (Figure 1).

In regards to claim 28, Hylin teaches a method a method for displaying multimedia data that includes still image data, motion video data, and audio data, via a projector connected to a network, comprising: transmitting the multimedia data requested by way of a client request to the requesting client and the projector in a server connected to the network (i.e. “A number of working machines or working stations 32 are connected to the central computer 28 for controlling, communicating and processing of exposure or picture material, generating exposure lists through the

exposure handler when required, and so on. Alternatively, the information mediators 24 may have their own versions of the exposure program used, thereby enabling the mediators to deliver finished picture sequences/films transparently. These picture sequences/films need not then be prepared in the control centre 12, but can be filed dynamically in the exposure list by the exposure handler." Column 11, Line 11); receiving the transmitted multimedia data in the projector (Figure 1, Element 38), loading a suitable application for playback of the received multimedia data in the projector (Figure 1, Element 38), playing back the multimedia data via the loaded application in the projector (Figure 1, Element 38); projecting playback still video or playback motion video from the played back multimedia data in the projector (Figure 1, Element 22); and outputting playback audio data from the played back multimedia data in the projector (Figure 1, Element 22).

In regards to claim 29, Hylin teaches a method according to claim 28, the client is a projector (Figure 1, Element 24).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hylin et al. (US 6005534) in view of Usami et al. (US 6785814).

In regards to claim 13, Hylin teaches all the limitations of claim 12. Hylin does not teach a date/time stamp portion for appending to the image data, the conversion date/time or save date/time of the image data. Usami teaches, "The image processing apparatus comprises image processing means 61 for carrying out image processing such as those described above on the original image data S0, supplementary information generating means 62 for generating process management information such as history of image processing, a degree of completeness, the time and date of processing, the deadline for the processing, and a relationship between jobs, as the supplementary information H, and embedding means 63 for embedding the supplementary information H in the original image data S0 by using deep layer encryption as by the digital camera shown in FIG. 9." (Column 20, Line 18). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Hylin with the teachings of Usami and include the time/date stamp with the

image data with the motivation to provide the user with more detailed information about a particular image.

In regards to claim 14, Hylin and Usami teach all the limitations of claim 13. They further teach an enhancement portion for applying enhancements to a projected image, the image data conversion portion converting the enhanced image to enhanced image data, and the date/time stamp portion appending the date/time of the enhancement or the date/time the enhanced image data being saved (i.e. "The image processing apparatus comprises image processing means 61 for carrying out image processing such as those described above on the original image data S0, supplementary information generating means 62 for generating process management information such as history of image processing, a degree of completeness, the time and date of processing, the deadline for the processing, and a relationship between jobs, as the supplementary information H, and embedding means 63 for embedding the supplementary information H in the original image data S0 by using deep layer encryption as by the digital camera shown in FIG. 9." Usami, Column 20, Line 18).

Claims 15 -20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hylin et al. (US 6005534) in view of Usami et al. (US 6785814) in view of Berstis (US 6615239).

In regards to claim 15, Hylin and Usami teach all the limitations of claim 13. They do not teach an image data associating portion for associating a plurality of items of the image data by way of associating data described in markup language. Berstis

teaches, "the presentation text and any processed images are converted to a markup language format (e.g., HTML)." (Column 4, Line 50). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Hylin and Usami with the teachings of Berstis and include a method of associating data described in a markup language with the motivation to provide the user a more convenient format.

In regards to claim 16, Hylin, Usami and Berstis teach all the limitations of claim 15. Hylin further teaches the image data associating portion chronologically associating a plurality of items of the image data using either the conversion date/time or save date/time of the image data ("the exposure list may include reserved instruction fields for updating with control instructions via the mediator interface, wherein the control instructions can be placed in a waiting line, or queue, when the exposure list lacks instruction updating fields at that moment in time." Column 3, Line 42).

In regards to claim 17, Hylin, Usami and Berstis teach all the limitations of claim 15. Hylin further teaches the projection display portion reading and projecting the saved image data (Figure 1, Element 22).

In regards to claim 18, Hylin and Usami teach all the limitations of claim 14. They do not teach an image data associating portion for associating a plurality of items of the image data and the enhanced image data by way of association data described in markup language format. Berstis teaches, "the presentation text and any processed images are converted to a markup language format (e.g., HTML)." (Column 4, Line 50). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Hylin and Usami with the teachings of Berstis and include a method of

associating data described in a markup language with the motivation to provide the user a more convenient format.

In regards to claim 19, Hylin, Usami, and Berstis teach all the limitations of claim 15. Hylin further teaches, the image data associating portion chronologically associating a plurality of items of the enhanced image data and the image data, by using either the date/time of the enhancement or the save date/time of the enhanced image data in the case of the enhanced image data or by using the date/time of conversion or save date/time of the image data in the case of the image data other than the enhanced image data ("the exposure list may include reserved instruction fields for updating with control instructions via the mediator interface, wherein the control instructions can be placed in a waiting line, or queue, when the exposure list lacks instruction updating fields at that moment in time." Column 3, Line 42).

In regards to claim 20, Hylin, Usami, and Berstis teach all the limitations of claim 15. Hylin further teaches a projection display portion reading and projecting the saved enhancement image data and/or image data (Figure 1, Element 22).

Response to Arguments

Applicant's arguments with respect to claims 1-29 have been considered but are moot in view of the new ground(s) of rejection.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Boris Pesin whose telephone number is (571) 272-4070. The examiner can normally be reached on Monday-Friday except every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kristine Kincaid can be reached on (571) 272-4063. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Kristine Kincaid
KRISTINE KINCAID
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100